

**CLAIMS**

We claim:

1. A magnetic reproduction device comprising:

a main magnetic pole core including soft magnetic films and non-magnetic films laminated alternately on a nonmagnetic substrate;

a pair of conductors formed on said insulation substrate and electrically connected to both ends of said main magnetic pole core, respectively;

a first pair of electrode terminals connected to said pair of conductors, respectively;

a high-frequency power source connected across said first pair of electrode terminals to supply a high-frequency current to said conductors; and

a second pair of electrode terminals connected to said conductors, respectively, to output a voltage generated by said high-frequency current.

2. A magnetic reproduction device comprising:

a magnetic pole of a multi-layer film including first magnetic films and first non-magnetic films alternately laminated on an insulation substrate;

a main magnetic pole core including soft second magnetic films and second non-magnetic films alternately laminated on said magnetic pole formed of said multi-layer film;

a pair of conductors formed on said insulation substrate and electrically connected to both ends of said main magnetic pole core, respectively;

a first pair of electrode terminals connected to said pair of conductors, respectively, to supply a high-

frequency current from an external constant current source to said conductors; and

a second pair of electrode terminals connected to said conductors, respectively, to output a voltage generated by said high-frequency current.

3. The magnetic reproduction device of claim 2, wherein said magnetic pole formed of said multi-layer film has a projection portion opposite to a recording medium.